

2x4 elements Yagi antenna

144 to 146 MHz

Part Nr. 220808



Electrical data

Radiation at 144.5 MHz

Effective electrical length	: 0.375 λ
Isotropic gain	: 8.9 dBi
Aperture angle @ -3 dB	
- E-plane	: 2 x 29.3°
- H-plane	: 2 x 43.2°
First side lobe set	
- E-plane	: None
- H-plane	: None
Rear protection	: - 16 dB
Average stray radiation	
- E-plane	: - 31 dB
- H-plane	: - 21 dB

Bandwidth

Gain @ -1 dB	: 142 to 149 MHz
Nominal impedance	: 50 Ω
Impedance match bandwidth @ SWR <1.3/1.....	: 143 to 147 MHz
Acceptable RF power (continuous duty)	: 1000 W
Required phase delay between frontmost and rearmost driven element	: 72°

Array of 2 or 4 antennas

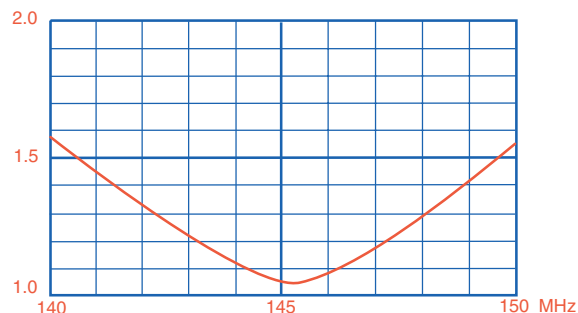
(optimized stacking distance. from center to center of elements. for minimal side lobe radiation)

- Electrical distance	: 0.85 λ
- Pratical distance	: 1.76 m

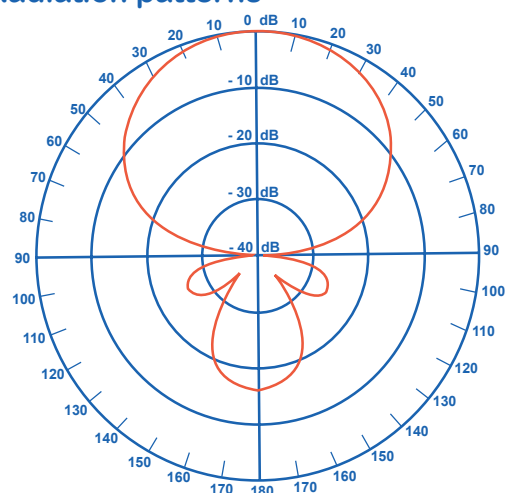
Mechanical data

Connector	: N
Overall length	: 1.03 m
Mass	: 1.2 kg
Effective wind load.....	: 0.03 m ²
Approximate wind load (25 m/s - 55 mph)	: 2.0 daN
Approximate wind load (45 m/s - 100 mph)	: 6.5 daN

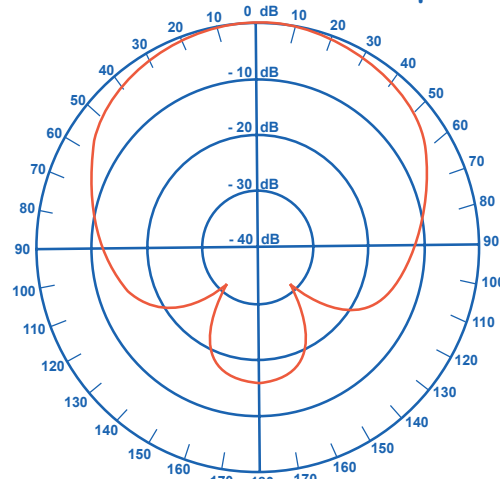
SWR curve



Radiation patterns



E plane



H plane

